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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>				ATTY. DOCKET NO. 1556.0290000/RWE		APPLICATION NO. 09/869,159	
				APPLICANTS Kastelic and Cheneval			
				§ 371 DATE August 15, 2001		GROUP 1645	

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
CA ↓	AA1	5,444,149	08/22/1995	Keene et al.	530	300	05/11/1992
	AB1	5,587,300	12/24/1996	Malter	435	69.1	04/26/1994
	AC1	5,698,427	12/16/1997	Keene et al.	435	172.3	06/08/1995
	AD1	5,731,343	03/24/1998	Feng et al.	514	450	02/24/1995
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
CA ↓	AL1	WO 93/20212	10/14/1993	WIPO			Yes No
	AM1	WO 98/39484	09/11/1998	WIPO			Yes No
	AN1	9828710.5	12/24/1998	UK			Yes No
	AO1	9828707.1	12/24/1998	UK			Yes No
	AP						Yes No
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)							
CA ↓	AR	1	Akashi, M. et al., "Number and Location of AUUUA Motifs: Role in Regulating Transiently Expressed RNAs," <i>Blood</i> 83:3182-3187, The American Society of Hematology (1994).				
	AS	1	Auwerx, J., "The human leukemia cell line, THP-1: A multifaceted model for the study of monocyte-macrophage differentiation," <i>Experientia</i> 47:22-31, Birkhäuser Verlag Basel (1991).				
	AT	1	Banholzer, R. et al., "Rapamycin Destabilizes Interleukin-3 mRNA in Autocrine Tumor Cells by a Mechanism Requiring an Intact 3' Untranslated Region," <i>Mol. Cell. Biol.</i> 17:3254-3260, American Society for Microbiology (June 1997).				
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

CA	AR	2	Beutler, B. et al., "Assay of a Ribonuclease That Preferentially Hydrolyses mRNAs Containing Cytokine-Derived UA-Rich Instability Sequences," <i>Biochem. Biophys. Res. Comm.</i> 152:973-980, Academic Press, Inc. (1988).
↓	AS	2	Chen, C.-Y.A. et al., "Interplay of Two Functionally and Structurally Distinct Domains of the c-fos AU-Rich Element Specifies Its mRNA-Destabilizing Function," <i>Mol. Cell. Biol.</i> 14:416-426, American Society for Microbiology (1994).
↓	AT	2	Chen, C.-Y.A. et al., "mRNA Decay Mediated by Two Distinct AU-Rich Elements from c-fos and Granulocyte-Macrophage Colony-Stimulating Factor Transcripts: Different Deadenylation Kinetics and Uncoupling from Translation," <i>Mol. Cell. Biol.</i> 15:5777-5788, American Society for Microbiology (1995).

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	AO						Yes No
	AP						Yes No

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CQ	AR	<u>4</u>	Crawford, E.K. et al., "The Role of 3' Poly(A) Tail Metabolism in Tumor Necrosis Factor- α Regulation," <i>J. Biol. Chem.</i> 272:21120-21127, The American Society for Biochemistry and Molecular Biology, Inc. (August 1997).
↓	AS	<u>4</u>	Danner, S. et al., "Agonist Regulation of Human β_2 -Adrenergic Receptor mRNA Stability Occurs via a Specific AU-rich Element," <i>J. Biol. Chem.</i> 273:3223-3229, The American Society for Biochemistry and Molecular Biology, Inc. (February 1998).
✓	AT	<u>4</u>	Fan, X.C. and Steitz, J.A., "Overexpression of HuR, a nuclear-cytoplasmic shuttling protein, increases the <i>in vivo</i> stability of ARE-containing mRNAs," <i>EMBO J.</i> 17:3448-3460, Oxford University Press (June 1998).

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	AP						Yes No

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CA	AR	5	Gil, P. and Green, P.J., "Multiple regions of the <i>Arabidopsis SAUR-AC1</i> gene control transcript abundance: the 3' untranslated region functions as an mRNA instability determinant," <i>EMBO J.</i> 15:1678-1686, Oxford University Press (1996).
	AS	5	Heaton, J.H. et al., "Cyclic Nucleotide Regulation of Type-1 Plasminogen Activator-Inhibitor mRNA Stability in Rat Hepatoma Cells," <i>J. Biol. Chem.</i> 273:14261-14268, The American Society for Biochemistry and Molecular Biology, Inc. (June 1998).
	AT	5	Kastelic, T. et al., "Induction of Rapid IL-1 β mRNA Degradation in THP-1 Cells Mediated Through the AU-Rich Region in the 3'UTR by a Radicicol Analogue," <i>Cytokine</i> 8:751-761, Academic Press Limited (1996).

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CA	AR	3	Chen, C.-Y.A. and Shyu, A.-B., "AU-rich elements: characterization and importance in mRNA degradation," <i>TIBS</i> 20:465-470, Elsevier Science Ltd. (1995).
	AS	3	Chen, C.-Y.A. and Shyu, A.-B., "Selective Degradation of Early-Response-Gene mRNAs: Functional Analyses of Sequence Features of the AU-Rich Elements," <i>Mol. Cell. Biol.</i> 14:8471-8482, American Society for Microbiology (1994).
	AT	3	Claffey, K.P. et al., "Identification of a Human VPF/VEGF 3' Untranslated Region Mediating Hypoxia-induced mRNA Stability," <i>Mol. Biol. Cell</i> 9:469-481, American Society for Cell Biology (February 1998).

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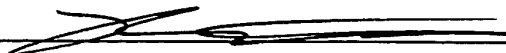
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CA	AR	6	Klausner, R.D. et al., "Regulating the Fate of mRNA: The Control of Cellular Iron Metabolism," Cell 72:19-28, Cell Press (1993).
↓	AS	6	Kobayashi, M. et al., "Characterization of the 3' untranslated region of mouse DNA topoisomerase IIα mRNA," Gene 215:329-337, Elsevier Science B.V. (July 1998).
✓	AT	6	Lagnado, C.A. et al., "AUUUA Is Not Sufficient To Promote Poly(A) Shortening and Degradation of an mRNA: the Functional Sequence within AU-Rich Elements May Be UUAUUUA(U/A)(U/A)," Mol. Cell. Biol. 14:7984-7995, American Society for Microbiology (1994).

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CA	AR	2	Levy, J.R. et al., "Sequence and functional characterization of the terminal exon of the human insulin receptor gene," <i>Biochim. Biophys. Acta</i> 1263:253-257, Elsevier Science B.V. (1995).
↓	AS	2	Levy, A.P. et al., "Post-transcriptional Regulation of Vascular Endothelial Growth Factor by Hypoxia," <i>J. Biol. Chem.</i> 271:2746-2753, The American Society for Biochemistry and Molecular Biology, Inc. (1996).
↓	AT	2	Lewis, T. et al., "Mapping of a Minimal AU-rich Sequence Required for Lipopolysaccharide-induced Binding of a 55-kDa Protein on Tumor Necrosis Factor-α mRNA," <i>J. Biol. Chem.</i> 273:13781-13786, The American Society for Biochemistry and Molecular Biology, Inc. (May 1998).

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ca	AR	8	Nambu, R. et al., "Multiple Instability-Regulating Sites in the 3' Untranslated Region of the Urokinase-Type Plasminogen Activator mRNA," Mol. Cell. Biol. 14:4920-4928, American Society for Microbiology (1994).
↓	AS	8	Sachs, A.B., "Messenger RNA Degradation in Eukaryotes," Cell 74:413-421, Cell Press (1993).
✓	AT	8	Shaw, G. and Kamen, R., "A Conserved AU Sequence from the 3' Untranslated Region of GM-CSF mRNA Mediates Selective mRNA Degradation," Cell 46:659-667, Cell Press (1986).

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ca	AR	9	Shyu, A.-B. et al., "Two distinct destabilizing elements in the c-fos message trigger deadenylation as a first step in rapid mRNA decay," <i>Genes Dev.</i> 5:221-231, Cold Spring Harbor Laboratory Press (1991).				
I	AS	9	Stoecklin, G. et al., "Functional Hierarchy of AUUUA Motifs in Mediating Rapid Interleukin-3 mRNA Decay," <i>J. Biol. Chem.</i> 269:28591-28597, The American Society for Biochemistry and Molecular Biology, Inc. (1994).				
✓	AT	9	Stolle, C.A. and Benz Jr., E.J., "Cellular factor affecting the stability of β -globin mRNA," <i>Gene</i> 62:65-74, Elsevier Science Publishers B.V. (1988).				

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CQ	AR	10	Sullivan, M.L. and Green, P.J., "Mutational analysis of the DST element in tobacco cells and transgenic plants: Identification of residues critical for mRNA instability," RNA 2:308-315, RNA Society (1996).
	AS	10	Winstall, E. et al., "Rapid mRNA Degradation Mediated by the c-fos 3' AU-Rich Element and That Mediated by the Granulocyte-Macrophage Colony-Stimulating Factor 3' AU-Rich Element Occur through Similar Polysome-Associated Mechanisms," Mol. Cell. Biol. 15:3796-3804, American Society for Microbiology (1995).
✓	AT	10	Xu, N. et al., "Modulation of the Fate of Cytoplasmic mRNA by AU-Rich Elements: Key Sequence Features Controlling mRNA Deadenylation and Decay," Mol. Cell. Biol. 17:4611-4621, American Society for Microbiology (August 1997).

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ca	AR	11	Zhang, S. et al., "Identification and Characterization of a Sequence Motif Involved in Nonsense-Mediated mRNA Decay," <i>Mol. Cell. Biol.</i> 15:2231-2244, American Society for Microbiology (1995).
↓	AS	11	Zubiaga, A.M. et al., "The Nonamer UUAUUUAUU Is the Key AU-Rich Sequence Motif That Mediates mRNA Degradation," <i>Mol. Cell. Biol.</i> 15:2219-2230, American Society for Microbiology (1995).
✓	AT	11	Kastelic et al., "Compounds Which Affect mRNA Stability and Uses Therefor," U.S. Nonprovisional Application 09/869,078, filed August 15, 2001.

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